

Timeline

The Timeline component is a powerful and flexible way to display chronological events, project milestones, or any sequential information. It provides multiple orientations, status indicators, and extensive customization options while maintaining accessibility and responsive design.

The `<aava-timeline>` component supports both vertical and horizontal layouts, various text alignment patterns, multiple sizes, and status-based visual indicators. It's perfect for project management, user onboarding flows, historical displays, and any scenario requiring chronological representation.

How to use

Basic Timeline

A simple vertical timeline with default settings.

```
import { AavaTimeline, TimelineEvent } from "@aava/play-core";
```

Text Alignment Variants

Different text alignment patterns for visual variety.

```
&lt;aava-timeline  
  [events] = "basicEvents"  
  [size] = "large"  
  [orientation] = "vertical"  
  [textAlign] = "zigzag-left"  
  [iconCircleSize] = "'40px'"  
  [iconCircleBgColor] = "'#fff'"  
  [iconCircleBorderColor] = "'#ccc'"  
&gt;&lt;/aava-timeline&gt;
```

Orientations

Vertical and horizontal timeline layouts.

```

basicEvents: TimelineEvent[] = [
  {
    time: '10:00 AM',
    title: 'Project Kickoff Meeting',
    description: 'Initial project planning and team alignment session',
    iconName: 'circle-check',
    iconColor: '#E91E63',
    iconSize: '24px',
    year: '2025',
    status: 'completed',
  },
  {
    time: '2:00 PM',
    title: 'Development Phase Started',
    description: 'Begin coding and implementation of core features',
    iconName: 'loader',
    iconColor: '#E91E63',
    iconSize: '20px',
    year: '2025',
    status: 'current',
  },
  {
    time: '4:30 PM',
    title: 'First Milestone Completed',
    description: 'Successfully completed the initial development phase',
    iconName: 'check-circle',
    iconColor: '#E91E63',
    iconSize: '16px',
    year: '2025',
    status: 'pending',
  },
];
selectedEvent: TimelineEvent | null = null;

onEventSelect(event: TimelineEvent): void {
  console.log('Timeline event selected:', event);
  this.selectedEvent = event;
}

```

Size Variants

Multiple size options for different use cases.

```

<?xml version="1.0" encoding="UTF-8"?>
<aava-timeline>
  [events] = "alignmentEvents"
  [size] = "'large'"
  [orientation] = "'vertical'"
  [textAlign] = "'zigzag-left'"
  [iconCircleSize] = "'40px'"
  [iconCircleBgColor] = "'#fff'"
  [iconCircleBorderColor] = "'#ccc'"
</aava-timeline>

<?xml version="1.0" encoding="UTF-8"?>
<aava-timeline>
  [events] = "alignmentEvents"
  [size] = "'large'"
  [orientation] = "'vertical'"
  [textAlign] = "'zigzag-right'"
  [iconCircleSize] = "'40px'"
  [iconCircleBgColor] = "'#fff'"
  [iconCircleBorderColor] = "'#ccc'"
</aava-timeline>

<?xml version="1.0" encoding="UTF-8"?>
<aava-timeline>
  [events] = "alignmentEvents"
  [size] = "'large'"
  [orientation] = "'vertical'"
  [textAlign] = "'zig-zag'"
  [iconCircleSize] = "'40px'"
  [iconCircleBgColor] = "'#fff'"
  [iconCircleBorderColor] = "'#ccc'"
</aava-timeline>;

```

API Reference

Input Properties

Property	Type	Default	Description
events	TimelineEvent[]	[]	Array of timeline events to display
orientation	'vertical' 'horizontal'	'vertical'	Timeline layout direction
size	'x-small' 'small' 'medium' 'large'	'large'	Overall size of the timeline
sortOrder	'ascending' 'descending'	'ascending'	Order to sort events

Property	Type	Default	Description
textAlign	'zig-zag' 'zigzag-left' 'zigzag-right' 'zigzag-up' 'zigzag-down'	'zigzag-left'	Text alignment pattern
iconCircleBgColor	string	'#fff'	Background color for icon circles
iconCircleBorderColor	string	'#ccc'	Border color for icon circles
iconCircleSize	string	'40px'	Size of icon circles
disabled	boolean	false	Disables the entire timeline
customSort	(a: TimelineEvent, b: TimelineEvent) => number	undefined	Custom sorting function
contentTemplate	any	undefined	Template for custom content projection

TimelineEvent Interface

Features

Multiple Orientations

- Vertical : Traditional top-to-bottom timeline layout
- Horizontal : Left-to-right layout for wide screens

Text Alignment Patterns

- zig-zag : Alternating left/right alignment for vertical, up/down for horizontal
- zigzag-left : All text aligned to the left
- zigzag-right : All text aligned to the right
- zigzag-up : All text aligned upward (horizontal only)

- zigzag-down : All text aligned downward (horizontal only)

Status System

- completed : Finished events with success styling
- current : Currently active events with highlight styling
- pending : Upcoming events with neutral styling
- unreached : Future events with disabled styling

Size Variants

- x-small : Compact size for dense interfaces
- small : Small size for limited space
- medium : Standard size for most use cases
- large : Large size for prominent displays

Customization Options

- Custom icon and image support
- Flexible color theming
- Custom sorting functions
- Content projection for advanced layouts
- Responsive design with automatic spacing

Best Practices

Content Organization

- Use clear, descriptive titles for each event
- Keep descriptions concise but informative
- Use consistent date/time formats
- Group related events logically

Visual Hierarchy

- Choose appropriate sizes based on content importance
- Use status indicators consistently across events
- Maintain visual balance with text alignment patterns
- Consider screen size when choosing orientation

Accessibility

- Provide meaningful alt text for images
- Use semantic status indicators
- Ensure sufficient color contrast
- Support keyboard navigation

Performance

- Limit the number of events for optimal performance
- Use custom sorting functions sparingly
- Consider lazy loading for large timelines
- Optimize images and icons

Examples

Project Timeline

User Journey Timeline

Styling

The timeline component uses CSS custom properties for theming and supports extensive customization through:

- Icon circle colors and sizes
- Status-based color schemes
- Responsive spacing adjustments
- Custom CSS classes for advanced styling